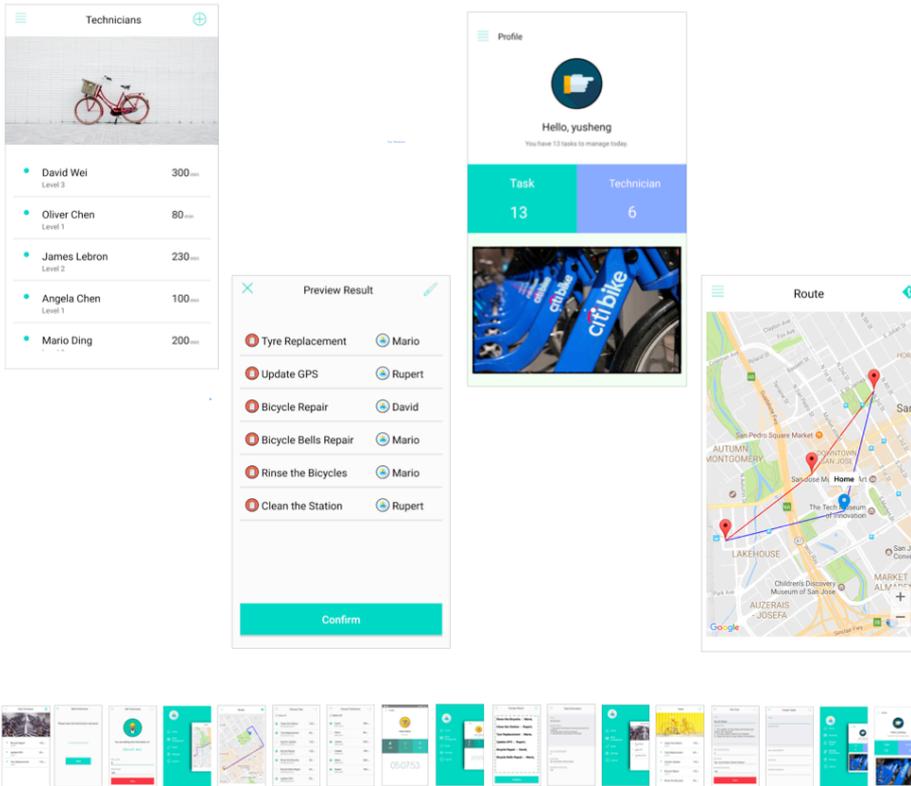


# FIXDULER

## A mobile terminal technician schedule solution



**Fixduler** is an android application written in Java that aims to solve **technician routing and scheduling problem** in a bike share company. By using **Fixduler**, the user can generate a scheduling result based on the given criteria **in several seconds** while the built-in **Guided local Search** algorithm will quickly try hundreds of combinations and suggest one with the highest efficiency. The app devote to offer a good user experience with a concise design and several auxiliary functions.

## Functions

### For Manager:

- Generate Schedule
- Manage the tasks
- Manage the technicians

### For Technician:

- Manage the task status
- Suggest recommended work sequence
- Route the technician using Google Map

## Novelties

- First Android application that solves technician routing and scheduling problem in a bike share company
- Firstly succeed to implement Guided Local Search on the mobile platform with limited resource

## Limitations

- Screen Adaption
- Cannot export the schedule